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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,536	01/23/2004	Sang Woon Suh	1740-000044/US	4973
30593 HARNESS I	7590 DICKEY & PIERCE, P.L.		EXAMINER	
P.O. BOX 8910			LANIER, BENJAMIN E	
RESTON, V	¥ 20195		ART UNIT	PAPER NUMBER
			2132	· · · · · · · · · · · · · · · · · · ·
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			11/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)				
Office Action Summary		10/762,536	SUH ET AL.				
		Examiner	Art Unit	1			
		Benjamin E. Lanier	2132				
The MA Period for Reply	ILING DATE of this communication app	pears on the cover sheet with	the correspondence address				
WHICHEVER - Extensions of time after SIX (6) MON - If NO period for re - Failure to reply wit Any reply received	D STATUTORY PERIOD FOR REPLY IS LONGER, FROM THE MAILING DATE of the available under the provisions of 37 CFR 1.13 THS from the mailing date of this communication. Ply is specified above, the maximum statutory period within the set or extended period for reply will, by statute to by the Office later than three months after the mailing in adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTH: , cause the application to become ABAN	TION. be timely filed from the mailing date of this communication DONED (35 U.S.C. § 133).				
Status							
1) Respons	sive to communication(s) filed on <u>06 Se</u>	eptember 2007.					
2a) This acti	This action is FINAL . 2b)⊠ This action is non-final.						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in	accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Cla	aims						
4)⊠ Claim(s)	1,3,4,7 and 12-40 is/are pending in th	e application.					
. 4a) Of the	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)☐ Claim(s)	is/are allowed.	•					
	<u>1,3,4,7,12-40</u> is/are rejected.						
·	is/are objected to.						
8) Claim(s)	are subject to restriction and/o	r election requirement.					
Application Pape	rs						
9) The spec	ification is objected to by the Examine	ır.					
10)☐ The draw	ring(s) filed on is/are: a)□ acce	epted or b) objected to by	the Examiner.				
Applicant	may not request that any objection to the	drawing(s) be held in abeyance	. See 37 CFR 1.85(a).				
	nent drawing sheet(s) including the correct			d).			
11)∐ The oath	or declaration is objected to by the Ex	caminer. Note the attached C	ffice Action or form PTO-152.				
Priority under 35	U.S.C. § 119						
	edgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
1.□ Ce	ertified copies of the priority documents	s have been received.					
2.☐ C€	ertified copies of the priority documents	s have been received in App	lication No				
	opies of the certified copies of the prior		ceived in this National Stage				
	plication from the International Bureau	, ,,,					
" See the at	tached detailed Office action for a list	of the certified copies not red	ceived.				
Attachment(s)	4 11 1 2						
1) Notice of Reference 2) Notice of Draftsp	nces Cited (PTO-892) erson's Patent Drawing Review (PTO-948)		mary (PTO-413) fail Date				
	osure Statement(s) (PTO/SB/08)		mal Patent Application				

Application/Control Number:

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed 06 September 2007 amends claims 1, 3, 4, 7, 13, 19, 24, 30, and 36. Claims 2, 5, 6, 8-11, 41-48 have been cancelled.

Response to Arguments

2. Applicant's arguments with respect to the Suzuki reference have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Newman, U.S. Patent No. 6,353,890, in view of Timmermans, U.S. Patent No. 5,737,286.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. The claim essentially recites, "the copy protection indicating information signifies to a reproducing apparatus to reproduce the data directly without utilizing the copy protection information," which renders the claims indefinite because the copy protection information is clearly being utilized by "a reproducing apparatus" if the reproducing apparatus knows what "copy protection indicating information signifies."

Claim Rejections - 35 USC § 103

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- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 1, 3, 4, 7, 12-40 rejected under 35 U.S.C. 103(a) as being unpatentable over Newman, U.S. Patent No. 6,353,890, in view of Timmermans, U.S. Patent No. 5,737,286. Referring to claims 1, 3, 7, 13, 30, Newman discloses a method for copy protection wherein access control information, such as a decryption key (Col. 10, lines 65-66), is stored in the leadin area of the CD (Col. 6, lines 45-50 & Figure 2), which meets the limitation of a lead-in area storing copy protection indicating information indicating whether or not the computer readable medium contains copy protection information for use in encrypting/decrypting data, the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the data, the copy protection indicating information is included within control information recorded in the lead-in area of the computer readable medium. Newman does not disclose storing the decryption key in the track wobble of the optical disc. Timmermans discloses a digital storage system wherein an encrypted data file is stored on an optical disc with

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a decryption key stored in the track wobble (Col. 7, lines 9-14), which meets the limitation of the copy protection information being recorded in wobbled patterns. It would have been obvious to one of ordinary skill in the art at the time the invention was made to store the decryption key of Newman in the track wobble of the optical disc in order to aid in the digital file recovery process as taught in Timmermans (Col. 7, lines 9-12).

Referring to claims 4, 14-18, 31-35, Newman discloses that the access control information includes error correction information and a decryption key necessary to access the content (Col. 6, lines 45-54 & Col. 10, lines 65-66), which meets the limitation of the copy protection indicating information signifies to a reproducing apparatus to reproduce the data based on the copy protection information if the copy protection indicating information indicates the computer readable medium contains copy protection information, reproducing the data utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the data, or reproducing the data directly without utilizing the copy protection information, if the recording medium does not contain copy protection information and reproducing the data utilizing the detected copy protection information if the copy protection information information is active, decrypting the data utilizing the copy protection information.

Referring to claims 12, 15, Timmermans discloses that the decryption key is stored in the track wobble using modulation (Col. 7, lines 12-17), which meets the limitation of the copy protection indicating information and/or the copy protection information are recorded by a phase modulation method, the reproducing includes detecting bi-phased modulated data and detecting the copy protection information using the bi-phased modulated data if the recording medium

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contains copy protection information for use in encrypting/decrypting the data based on the copy protection indicating information. It would have been obvious to one of ordinary skill in the art at the time the invention was made to store the decryption key of Newman in the track wobble of the optical disc in order to aid in the digital file recovery process as taught in Timmermans (Col. 7, lines 9-12).

Referring to claims 19-21, 36-38, Newman discloses a method for copy protection wherein access control information, such as a decryption key (Col. 10, lines 65-66), is stored in the lead-in area of the CD (Col. 6, lines 45-50 & Figure 2), which meets the limitation of detecting copy protection indicating information indicating whether or not the computer readable medium contains copy protection information for use in encrypting/decrypting data, the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the data, the copy protection indicating information is included within control information recorded in the lead-in area of the computer readable medium, the recording medium does not contain copy protection information for use in encrypting/decrypting the data if the copy protection indicating information indicates the recording medium does not contain copy protection information. The access control information includes error correction information and a decryption key necessary to access the content (Col. 6, lines 45-54 & Col. 10, lines 65-66). which meets the limitation of playing the data utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the data, or playing the data directly without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in decrypting the data, based on the detected copy protection indicating information. Newman does not disclose storing

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the decryption key in the track wobble of the optical disc. Timmermans discloses a digital storage system wherein an encrypted data file is stored on an optical disc with a decryption key stored in the track wobble (Col. 7, lines 9-14), which meets the limitation of the copy protection information being recorded in wobbled patterns. It would have been obvious to one of ordinary skill in the art at the time the invention was made to store the decryption key of Newman in the track wobble of the optical disc in order to aid in the digital file recovery process as taught in Timmermans (Col. 7, lines 9-12).

Referring to claims 22, 23, 39, 40, Newman discloses that the access control information includes error correction information and a decryption key necessary to access the content (Col. 6, lines 45-54 & Col. 10, lines 65-66), which meets the limitation of the recording medium contains copy protection information for use in encrypting/decrypting the data when the copy protection indicating information indicates the recording medium contains copy protection information and a value of the copy protection information indicating that copy protection information is present, said playing includes decrypting the data utilizing the copy protection information.

Referring to claim 24, Newman discloses a method for copy protection wherein access control information, such as a decryption key (Col. 10, lines 65-66), is stored in the lead-in area of the CD (Col. 6, lines 45-50 & Figure 2), which meets the limitation of utilizing copy protection indicating information indicating whether or not the computer readable medium contains copy protection information for use in encrypting/decrypting data, the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the data, the copy protection indicating information is included within

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control information recorded in the lead-in area of the computer readable medium, the recording medium does not contain copy protection information for use in encrypting/decrypting the data if the copy protection indicating information indicates the recording medium does not contain copy protection information. The content can be recorded on an optical disc (Col. 4, lines 17-45), which meets the limitation of recording the data based on the copy protection information.

Newman does not disclose storing the decryption key in the track wobble of the optical disc.

Timmermans discloses a digital storage system wherein an encrypted data file is stored on an optical disc with a decryption key stored in the track wobble (Col. 7, lines 9-14), which meets the limitation of the copy protection information being recorded in wobbled patterns. It would have been obvious to one of ordinary skill in the art at the time the invention was made to store the decryption key of Newman in the track wobble of the optical disc in order to aid in the digital file recovery process as taught in Timmermans (Col. 7, lines 9-12).

Referring to claims 25-29, Newman discloses that the access control information includes error correction information and a decryption key necessary to access the content (Col. 6, lines 45-54 & Col. 10, lines 65-66), which meets the limitation of the data may be recorded utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the data, or the data may be recorded directly without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in encrypting/decrypting the data, the recording medium does not contain copy protection indicating information indicates the recording medium does not contain copy protection indicating information indicates the recording medium does not contain copy protection information wherein the recording records the data without encryption, the recording medium

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does not contain copy protection information for use in encrypting/decrypting the data if the copy protection indicating information indicates the recording medium contains copy protection information, but a value of the copy protection information indicates that copy protection information is not present, wherein the recording records the data without encryption, the recording medium contains copy protection information for use in encrypting/decrypting the data when the copy protection indicating information indicates the recording medium contains copy protection information and a value of the copy protection information indicates that copy protection information is present, wherein the recording records the data encrypted utilizing the copy protection information, encrypting the data utilizing the copy protection information precedes recording of the data.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin E. Lanier whose telephone number is 571-272-3805. The examiner can normally be reached on M-Th 6:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin E. Lanie

Primary Examiner